

F. A. MCPHERSON
VICE PRESIDENT
COAL AND NUCLEAR OPERATIONS

November 12, 1976

RECEIVED

NOV 1 G 1976

U. S. Geological Survey Carlshad, N. M.

Mr. Dave Stewart Area Mining Supervisor U.S. Geological Survey P. O. Box 1716 Carlsbad, New Mexico 88220

Dear Mr. Stewart:

Please refer to your letter of September 20 to Mr. Jack Swales, Vice President, Kerr-McGee Nuclear Corporation, in regard to the conditions applicable to the approved Permit to Mine on properties known as Church Rock II and III Mines on Navajo Tribal Uranium Mining Leases 14-20-0603-9986, -9988 and -9992.

Members of Kerr-McGee Nuclear Corporation met with USGS and NMEIA representatives in Albuquerque, New Mexico, on November 4, discussing our proposals to meet the requirements of these conditions. In general, an acceptance of our proposal was voiced by the various regulatory representatives.

A response to each of the conditions given in your letter is given on the attached enclosure as modified by the discussions in these meetings. We believe that the enclosure fully describes Kerr-McGee's activity which we plan to meet the conditions. Where we are currently unable to describe our practices exactly, subsequent submittals will be directed to you after further on-site development has commenced.

We intend to keep your office fully informed as additional information is secured on the Church Rock II site and in this way evolve a plan that fully complies with the requirements of the conditions.

Very truly yours,

F. A. McPherson

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Enclosures



ENVIRONMENT AND HEALTH MANAGEMENT DIVISION

CERTIFIED MAIL RETURN RECEIPT REQUESTED

May 14, 1982

Mr. Oscar Cabra, Chief
Industrial Permits Sections (6AEWP)
U. S. Environmental Protection Agency
Region VI
First International Bank Building
1201 Elm Street
Dallas, Texas 75270

Re: NPDES Permit No. NMOO20524 Kerr-McGee Nuclear Corporation Church Rock

Dear Mr. Cabra:

This amends the DMR submitted 04-29-82 to include trace metal analyses for molybdenum, selenium and vanadium levels.

The monitoring period covers the dates from January 1 through March 31, 1982. Should additional information be required, please contact me.

Sincerely,

W. J. Shelley, Vice Fresident Nuclear Licensing & Regulation

GMF/ba

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OF

CEOTECHNICAL INVESTIGATION REPORT

Church Rock Mine No 22 - Surface Facilities

Kerr-McGee Nuclear Corporation

Church Rock, New Mexico

SHB Job, No. E77-1016



SERGENT, HAUSKINS & BECKWITH

CONSULTING SOIL AND FOUNDATION ENGINEERS

Church Rock Mine No. 2 Surface Facilities Kerr-McGee Nuclear Corporation Church Rock, New Mexico SHB Job No. E77-1016

1. INTRODUCTION

This report is submitted pursuant to a geotechnical investigation made by this firm of the site of the proposed surface facilities for Church Rock Mine No. 2 located approximately 20 miles northeast of Gallup, McKinley County, New Mexico. The object of this investigation was to evaluate the physical properties of subsoils and rock underlying the site to provide criteria for foundation design and slab support for the surface facilities. A secondary objective was to provide a preliminary evaluation of design considerations for the settling ponds, waste embankments and ore storage piles.

2. PROJECT DESCRIPTION

The proposed surface facilities will consist of three areas; shaft site, settling pond, and waste and ore storage (see site plan in Appendix A). The following information pertaining to these areas was provided by Mr. Ernest G. Kettner of Kerr-McGee Nuclear Corporation of Oklahoma City, Oklahoma.

A. Shaft Site Area

This area will contain the head frame structure, a steel frame building with plan dimensions of about 180 by 60 feet housing the hoist, warehouse and shop, a change house structure, also steel frame, with plan dimensions of about 60 by 140 feet, and

Church Rock Mine No. 2 Surface Facilities Kerr-McGee Nuclear Corporation Church Rock, New Mexico SHB Job No. E77-1016

> an electrical substation and generator area. All of the buildings will be single story with no basements and slab-on-grade construction will be utilized.

B. Settling Pond Area

The settling ponds will be from about 2 to 5 acres in size with a total depth of water of about 10 feet. It is assumed that the ponds will be constructed as a cut-fill operation borrowing from the pond bottoms to construct the perimeter berms. Due to the slope across the proposed site, it appears berm heights could range to about 20 feet on the western (lower) side of the site and the ponds would be entirely in cut on the eastern side.

C. Waste & Ore Storage Areas

These areas are located uphill to the south and east of the proposed settling pond area and are situated so that surface runoff will be toward the pond area. It is assumed that both the waste and the ore storage piles will be constructed in a fashion similar to those at the Church Rock Mine No. 1, i.e., the materials end-dumped and dozed into a pile. Since the gradation of the materials probably will be similar, it is assumed side slopes of these piles will be maintained similar to those at the Church Rock Mine No. 1.

Should details involved in final design vary significantly



SERGENT, HAUSKINS & BECKWITH

CONSULTING SOIL

ENGINEERING GEOLOGY

D. DWAINE SERGENT, PE.

DALE V. BEDENKOP, P.E

IOUN A HAUSKINS P.E. ROBERT D. BOOTH, P.E.

BUD WOODWARD

November 3, 1978

NUCLEAR CORPORATION OKLAHOMA CITY, OKLA.

Kerr-McGee Nuclear Corporation Kerr-McGee Center Oklahoma City, Oklahoma 73125

SHB Job No. E78-1124

Attention: Mr. Joe Hodgson

Re: Church Rock Business Lease Church Rock, New Mexico

Gentlemen:

Our Soil and Foundation Investigation Report on the referenced project is herewith submitted. The report includes the results of test drilling, laboratory analysis, and recommended criteria for foundation design and slab support.

Should any questions arise concerning the report, we would be pleased to discuss them with you.

Sergent, Hauskins & Beckwith Pigine Respectfully submitted,

Copies: Addressee (4)

REPLY TO: 2821 GIRARD BLVD., N.E., ALBUQUERQUE, NEW MEXICO 87107